

Appendix D: Joint Disease and Enthesal Change Results (Chapter 7)

L= Left; R= Right; Prox= Proximal; Dist= Distal.

Osteoarthritis (OA) by time period

H= Hellenistic; R= Roman; LA= Late Antique.

Summary

Hellenistic 19.2%

Roman 7.7%

Late Antique 10.4%

Overall totals for all time periods:

No. with osteoarthritis (OA): 831

No. recorded joint surfaces: 8703 9.5%

Jaw	Temporal L	Temporal R	Mandible L	Mandible R	Sum	%
H OA	0	0	0	0	0	
H Joints	9	11	9	7	36	0.0
R OA	0	0	0	2	2	
R Joints	11	20	11	24	66	3.0
LA OA	0	0	4	0	4	
LA Joints	29	24	26	26	105	3.8

Table 1: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the jaw by time period.

Cervical vertebrae	C1	C2	C3	C4	C5	C6	C7	Sum	%
H OA	2	1	3	2	4	1		13	
H Joints	5	8	5	2	5	2		27	48.1
R OA	4	5	2	2	1	2	2	18	
R Joints	28	32	17	18	17	18	12	142	12.7
LA OA	2	7	1	3	5	5	3	26	
LA Joints	43	45	32	33	30	36	17	236	11.0

Table 2: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the cervical vertebrae by time period.

Thoracic vertebrae	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	Sum	%
H OA	1	0	1	0	0	0	0	0	0	0	0	0	2	
H Joints	1	1	1	3	3	2	1	1	1	1	1	0	16	12.5
R OA	0	1	1	2	2	3	3	3	3	3	2	3	26	
R Joints	17	11	20	23	19	13	14	20	21	13	8	10	189	13.8
LA OA	3	4	2	5	2	7	6	4	5	6	5	3	52	
LA Joints	38	23	25	30	32	41	42	38	35	31	30	34	399	13.0

Table 3: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the thoracic vertebrae by time period.

Lumbar Vertebrae	L1	L2	L3	L4	L5	Sacrum	Sum	%
H OA	0	2	1	0			3	
H Joints	3	3	1	1			8	37.5
R OA	3	4	3	1	2	1	14	
R Joints	37	24	17	7	7	16	108	13.0
LA OA	3	2	3	7	6	3	24	
LA Joints	45	38	37	29	24	37	210	11.4

Table 4: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the lumbar vertebrae by time period.

Shoulder and sternal	Manubrium	Clavicle L prox	Clavicle L dist	Clavicle R prox	Clavicle R dist	Glenoid R	Glenoid L	Acromion L	Acromion R	Humerus L prox	Humerus R prox	Sum	%
H OA	0	0	1	0	0	1	0	0	0	0	0	2	
H Joints	1	2	1	1	1	3	2	0	1	2	1	15	13.3
R OA	5	1	4	3	4	7	3	1	1	2	2	33	
R Joints	10	13	14	20	17	15	12	2	5	20	12	140	23.6
LA OA	7	9	8	8	8	10	4	1	1	2	3	61	
LA Joints	21	23	20	22	19	44	34	9	5	17	21	235	26.0

Table 5: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the shoulder and sternum by time period.

Elbow	Humerus L dist	Ulna L prox	Radius L prox	Humerus R dist	Radius R prox	Ulna R prox	Sum	%
H OA	0	1	1	0	0	2	4	
H Joints	1	4	2	2	2	5	16	25.0
R OA	4	4	2	4	2	4	20	
R Joints	35	46	33	50	31	49	244	8.2
LA OA	2	6	2	8	3	12	33	
LA Joints	43	46	38	57	47	70	301	11.0

Table 6: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the elbow joints by time period.

Wrist	Ulna L dist	Radius L dist	Radius R dist	Ulna R dist	Sum	%
H OA	0		1		1	
H Joints	1		2		3	33
R OA	0	1	1	1	3	
R Joints	15	32	22	14	83	3.6
LA OA	1	1	2	3	7	
LA Joints	19	38	32	25	114	6.1

Table 7: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the wrist joints by time period.

Hands	H OA	H Joints	R OA	R Joints	LA OA	LA Joints
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LMC1	1	2	1	35	4	35
LMC2	1	3	2	42	1	43
LMC3	1	3	1	41	2	41
LMC4	0	1	0	37	1	41
LMC5	0	1	0	37	1	31
Prox phalanx 1 L	1	2	1	19	1	14
Dist phalanx 1 L			1	7	1	6
Prox phalanges 2-5 L			0	11	1	5
Mid phalanges 2-5 L			0	7	1	5
Dist phalanges 2-5 L			2	3	0	3
RMC1	2	5	5	40	7	35
RMC2	2	4	0	39	2	37
RMC3	1	3	1	44	4	34
RMC4	1	3	0	42	1	34
RMC5	1	1	0	37	0	29
Prox phalanx 1 R	2	4	3	22	2	17
Dist phalanx 1 R			1	11	1	4
Prox phalanges 2-5 R			0	12	0	4
Mid phalanges 2-5 R			2	6	0	4
Dist phalanges 2-5 R			0	2	0	4
Metacarpals unsided	7	55	2	87	0	47
Prox phalanges unsided	9	50	23	430	29	334
Mid phalanges unsided	2	9	11	180	22	167
Dist phalanges unsided	0	1	7	24	7	46
Sum	31	147	63	1215	88	1020
%		21.1		5.2		8.6

Table 8: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the hands by time period.

Hips	Pubis L	Ischium L	Ilium L	Pubis R	Ischium R	Ilium R	Femur L prox	Femur R prox	Sum	%
H OA		1	1		2	1	0	0	5	
H Joints		2	5		4	4	6	9	30	16.7
R OA	0	6	2	1	2	2	3	2	18	
R Joints	9	37	15	5	26	15	42	39	188	9.6
LA OA	2	12	3	6	4	2	2	2	33	
LA Joints	17	39	19	22	35	22	39	44	237	13.9

Table 9: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the hip joints by time period.

Knees	Femur L dist	Patella L	Tibia L prox	Femur R dist	Patella R	Tibia R prox	Sum	%
H OA	1	1	0	1	2	1	6	
H Joints	4	3	3	5	5	3	23	26.1
R OA	3	7	1	2	5	3	21	
R Joints	45	47	40	55	51	46	284	7.4
LA OA	6	7	1	7	8	1	30	
LA Joints	48	50	39	51	48	44	280	10.7

Table 10: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the knee joints by time period.

Ankle	Tibia L dist	Fibula L dist	Talus L	Tibia R dist	Fibula R dist	Talus R	Sum	%
H OA	0	0	0	0		0	0	
H Joints	5	1	9	7		7	29	0.0
R OA	1	0	1	0	0	1	3	
R Joints	52	31	63	52	31	62	291	1.0
LA OA	3	0	2	1	1	2	9	
LA Joints	48	18	72	51	23	70	282	3.2

Table 11: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the ankle joints by time period.

Feet	H OA	H Joints	R OA	R Joints	LA OA	LA Joints
LMT1	0	2	7	54	5	58
LMT2	0	2	0	45	2	53
LMT3	0	1	0	53	1	58
LMT4	0	1	1	59	1	46
LMT5	0	1	2	65	5	55
Prox phalanx 1 L	2	2	8	38	8	33
Dist phalanx 1 L			3	9	5	14
Prox phalanges 2-5 L					0	7
RMT1	0	3	8	61	1	58
RMT2	0	2	1	62	1	53
RMT3	0	0	1	56	2	58
RMT4	0	0	1	56	1	45
RMT5	0	2	1	49	1	45
Prox phalanx 1 R	0	2	8	47	6	37
Dist phalanx 1 R			4	14	4	14
Prox phalanges 2-5 R					0	8
Mid phalanges 2-5 R					0	2
Metatarsals unsided	0	2	0	34	0	33
Prox phalanges unsided	5	15	28	221	28	228
Mid phalanges unsided			3	14	9	24
Dist phalanges unsided			1	2	7	18

Feet	H OA	H Joints	R OA	R Joints	LA OA	LA Joints
Sum	7	35	77	939	87	947
%		20.0		8.2		9.2

Table 12: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the feet by time period.

	Hellenistic OA (%)	Roman OA (%)	Late Antique OA (%)
Jaw	0.0	3.0	3.8
Cervical vertebrae	48.1	12.7	11.0
Thoracic vertebrae	12.5	13.8	13.0
Lumbar Vertebrae	37.5	13.0	11.4
Shoulder/sternal*	13.3	23.6	26.0
Shoulder only	18.2	24.7	21.9
Sternal only	0.0	20.9	36.4
Elbow	25.0	8.2	11.0
Wrist	33.3	3.6	6.1
Hands*	21.1	5.2	8.6
Metacarpals only	21.0	2.5	5.7
Hand Phalanges only	21.2	6.9	10.6
Hips	16.7	9.6	13.9
Knees	26.1	7.4	10.7
Ankle	0.0	1.3	3.3
Feet*	20.0	8.2	9.2
Metatarsals only	0.0	2.6	3.8
Foot Phalanges only	36.8	15.9	17.4
All joint surfaces	19.2	7.7	10.4

Table 13: Summary of OA prevalences by joint region and for all joints combined by time period.

Osteoarthritis (OA) by sex

F= Female; M= Male.

Jaw	Temporal L	Temporal R	Mandible L	Mandible R	Sum	%
F OA	0	0	2	2	4	
F Joints	20	18	23	22	83	4.8
M OA	0	0	0	0	0	
M Joints	23	30	12	13	78	0.0

Table 14: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the jaw by sex.

Cervical vertebrae	C1	C2	C3	C4	C5	C6	C7	Sum	%
F OA	0	0	0	0	0	0	0	0	
F Joints	4	5	4	3	3	1	1	21	0.0
M OA	4	3	3	4	5	1	1	21	
M Joints	13	9	7	8	8	4	4	53	39.6

Table 15: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the cervical vertebrae by sex.

Thoracic vertebrae	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	Sum	%
F OA	0	0	0	0	0	0	0	0	1	1	0	0	2	
F Joints	2	1	2	2	2	2	2	4	2	1	2	1	23	8.7
M OA	1	1	2	1	2	2	4	3	2	2	2	1	23	
M Joints	5	5	3	3	8	8	6	5	5	6	3	5	62	37.1

Table 16: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the thoracic vertebrae by sex.

Lumbar vertebrae	L1	L2	L3	L4	L5	Sacrum	Sum	%
F OA	0	1	1	0	0	0	2	
F Joints	4	2	2	0	0	1	9	22.2
M OA	2	3	3	1	2	1	12	
M Joints	6	7	6	3	4	4	30	40.0

Table 17: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the lumbar vertebrae by sex.

Shoulders and sternal	Manubrium	Clavicle L prox	Clavicle L dist	Clavicle R prox	Clavicle R dist	Glenoid R	Glenoid L	Acromion L	Acromion R	Humerus L prox	Humerus R prox	Sum	%
F OA	1	0	0	0	0	0	0	0	0	0	0	1	
F Joints	1	3	0	3	2	4	1	0	1	2	2	19	5.3
M OA	2	0	5	1	3	6	2	1	1	1	1	23	
M Joints	5	4	7	6	4	7	4	2	2	8	2	51	45.1

Table 18: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the shoulder and sternum by sex.

Elbow	Humerus L dist	Ulna L prox	Radius L prox	Humerus R dist	Radius R prox	Ulna R prox	Sum	%
F OA	1	1	1	0	0	1	4	
F Joints	3	5	4	3	3	7	25	16.0
M OA	0	0	0	1	0	2	3	
M Joints	7	7	6	8	7	9	44	6.8

Table 19: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the elbow joints by sex.

Wrist	Ulna L dist	Radius L dist	Radius R dist	Ulna R dist	Sum	%
F OA	1	0	0	0	1	
F Joints	1	1	2	1	5	20.0
M OA	0	2	0	1	3	
M Joints	5	6	4	8	23	13.0

Table 20: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the wrist joints by sex.

Hands	F OA	F Joints	M OA	M Joints
LMC1	0	2	0	4
LMC2	0	3	0	8
LMC3	0	2	0	8
LMC4	0	2	0	4
LMC5	0	1	0	7

Hands	F OA	F Joints	M OA	M Joints
Prox phalanx 1 L	0	1	0	6
Dist phalanx 1 L			1	2
Prox phalanges 2-5 L			0	15
Mid phalanges 2-5 L			0	10
Dist phalanges 2-5 L			2	5
RMC1	0	3	1	9
RMC2	0	2	1	6
RMC3	0	3	0	7
RMC4	0	2	1	7
RMC5	0	1	1	6
Prox phalanx 1 R	0	1	1	8
Dist phalanx 1 R			1	3
Prox phalanges 2-5 R			0	16
Mid phalanges 2-5 R			2	10
Dist phalanges 2-5 R			2	6
Metacarpals unsided	0	0	0	10
Prox phalanges unsided	0	35	0	37
Mid phalanges unsided	0	5	0	15
Dist phalanges unsided	0	2	0	2
Sum	0	65	13	211
%		0.0		6.2

Table 21: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the hands by sex.

Hips	Pubis L	Ischium L	Ilium L	Pubis R	Ischium R	Ilium R	Femur L prox	Femur R prox	Sum	%
F OA	1	4	2	3	1	2	0	0	13	
F Joints	13	12	10	9	10	14	4	7	79	16.5
M OA	1	3	2	2	1	0	1	1	11	
M Joints	9	10	14	12	9	18	6	9	87	12.6

Table 22: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the hip joints by sex.

Knees	Femur L dist	Patella L	Tibia L prox	Femur R dist	Patella R	Tibia R prox	Sum	%
F OA	0	0	0	0	2	0	2	
F Joints	4	1	2	4	3	3	17	11.8
M OA	2	1	1	2	1	1	8	
M Joints	11	7	9	8	9	7	51	15.7

Table 23: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the knee joints by sex.

Ankle	Tibia L dist	Fibula L dist	Talus L	Tibia R dist	Fibula R dist	Talus R	Sum	%
F OA	0	0	0	0	0	0	0	
F Joints	3	1	5	6	2	7	24	0.0
M OA	1	0	0	1	0	0	2	
M Joints	7	3	6	6	2	7	31	6.5

Table 24: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the ankle joints by sex.

Feet	F OA	F Joints	M OA	M Joints
LMT1	0	2	0	4
LMT2	0	0	0	4
LMT3	0	0	0	7
LMT4	0	1	0	3
LMT5	0	1	0	6
Prox phalanx 1 L	1	1	1	3
Dist phalanx 1 L			0	1
Prox phalanges 2-5 L			0	3
RMT1				
RMT2				
RMT3	0	4	0	4
RMT4	0	3	0	5
RMT5	0	2	0	6
Prox phalanx 1 R	0	2	0	3
Dist phalanx 1 R	0	3	0	5
Prox phalanges 2-5 R	0	4	2	5
Mid phalanges 2-5 R	0	1	0	1
Metatarsals unsided			0	4
Prox phalanges unsided			0	2
Mid phalanges unsided				
Dist phalanges unsided	0	0	0	6
Prox phalanges unsided	1	11	4	24
Mid phalanges unsided	0	1	1	1
Dist phalanges unsided	0	0		
Sum	2	36	8	97
%		5.6		8.2

Table 25: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the knee joints by sex.

	Female OA (%)	Male OA (%)
Jaw	4.8	0.0
Cervical vertebrae	0.0	39.6
Thoracic vertebrae	8.7	37.1
Lumbar vertebrae	22.2	40.0
Shoulders/sternal*	5.3	45.1
Shoulder only	0.0	55.6
Sternal only	14.3	20.0
Elbow	16.0	6.8
Wrist	20.0	13.0
Hands*	0.0	6.2
Metacarpals only	0.0	5.3
Phalanges only	0.0	6.7
Hips	16.5	12.6
Knees	11.8	15.7
Ankle	0.0	7.7
Feet*	5.6	8.2
Metatarsals only	0.0	0.0
Phalanges only	11.1	18.2
All joint surfaces	7.6	15.6

Table 26: Summary of OA prevalences by joint region and for all joints combined by sex.

Osteoarthritis (OA) by tomb type

B= Built; Ch= Chamber (rock-cut); Ost= Osteotheke; SL= Stone-lined; Ci= Cist; T= Tile; P= Pit.

Jaw	Temporal L	Temporal R	Mandible L	Mandible R	Sum	%
B OA	0	0	0	0	0	
B Joints	2	6	4	4	16	0.0
Ch OA	0	0	0	2	2	
Ch Joints	6	9	3	14	32	6.3
Ost OA	0	0	4	0	4	
Ost Joints	24	21	22	22	89	4.5
SL OA	0	0	0	0	0	
SL Joints	0	2	0	3	5	0.0
Ci OA	0	0	0	0	0	
Ci Joints	6	3	5	3	17	0.0
T OA	0	0	0	0	0	
T Joints	1	2	3	4	10	0.0
P OA	0	0	0	0	0	
P Joints	10	12	9	7	38	0.0

Table 27: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the jaw by tomb type.

Cervical vertebrae	C1	C2	C3	C4	C5	C6	C7	Sum	%
B OA	0	0	0	0	0	0	0	0	
B Joints	5	6	4	4	3	2	3	27	0.0
Ch OA	2	4	2	2	1	2	1	14	
Ch Joints	16	20	10	8	10	13	4	81	17.3
Ost OA	1	6	1	3	5	5	2	23	
Ost Joints	33	34	24	26	22	30	13	182	12.6
SL OA	1	1	0	0	0	0	1	3	
SL Joints	6	6	2	2	1	1	3	21	14.3
Ci OA	1	1	0	0	0	0	1	3	
Ci Joints	7	8	5	7	5	2	5	39	7.7
T OA	2	0	1	1	1	1		6	
T Joints	4	3	2	2	2	2		15	40.0
P OA	1	1	2	3	3	0		10	
P Joints	8	14	6	3	4	1		36	27.8

Table 28: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the cervical vertebrae by tomb type.

Thoracic vertebrae	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	Sum	%
B OA	0	0	0	0	0	0	0	0	0	1	0	0	1	
B Joints	5	1	3	4	3	3	3	7	5	3	2	3	42	2.4
Ch OA	0	0	0	1	0	0	0	1	1	0	1	2	6	
Ch Joints	8	4	8	13	11	5	6	7	10	4	3	3	82	7.3
Ost OA	3	3	1	3	1	6	5	4	5	6	4	2	43	
Ost Joints	28	15	18	23	21	28	28	29	24	20	15	21	270	15.9
SL OA	0	0	0	0	0	0	0	0	0	0	0	0	0	
SL Joints	1	2	1	3	2	0	3	2	1	2	2	2	21	0.0
Ci OA	0	2	2	3	3	3	3	2	2	2	2	2	26	
Ci Joints	7	7	8	7	6	5	5	7	6	4	5	7	74	35.1
T OA		0	0	0	0	1	1	0	0	0			2	
T Joints		1	1	2	2	2	2	2	3	2			17	11.8
P OA	1	0	1	0	0	0	0	0	0	0	0	0	2	
P Joints	1	1	1	3	4	3	1	1	1	1	2	1	20	10.0

Table 29: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the thoracic vertebrae by tomb type.

Lumbar vertebrae	L1	L2	L3	L4	L5	Sacrum	Sum	%
B OA	0	0	0	0	0	0	0	
B Joints	9	3	5	3	2	7	29	0.0
Ch OA	1	1	0	0	0	0	2	
Ch Joints	18	11	6	2	2	8	47	4.3
Ost OA	3	2	3	7	6	2	23	
Ost Joints	33	25	26	22	19	30	155	14.8
SL OA	0	0	0	0	0	0	0	
SL Joints	4	5	3	3	4	4	23	0.0
Ci OA	2	3	3	1	2	2	13	

Lumbar vertebrae	L1	L2	L3	L4	L5	Sacrum	Sum	%
Ci Joints	7	8	7	4	3	5	34	38.2
T OA	0	0		0			0	
T Joints	3	2		1			6	0.0
P OA	0	2	1	0	0	0	3	
P Joints	4	4	2	1	1	1	13	23.1

Table 30: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the lumbar vertebrae by tomb type.

Shoulders and sternal	Manubrium	Clavicle L prox	Clavicle L dist	Clavicle R prox	Clavicle R dist	Glenoid R	Glenoid L	Acromion L	Acromion R	Humerus L prox	Humerus R prox	Sum	%
B OA	1	0	0	1	1	1	0	0	0	0	1	5	
B Joints	3	3	3	8	2	3	2	0	0	5	7	36	13.9
Ch OA	1	1	1	2	0	3	1	0	0	1	0	10	
Ch Joints	2	5	7	6	9	5	6	0	3	9	1	53	18.9
Ost OA	6	8	8	8	8	7	4	1	1	1	2	54	
Ost Joints	18	22	20	17	19	35	29	9	4	12	17	202	26.7
SL OA	1	0	1	0	1	1	1	1	0	1	1	8	
SL Joints	3	1	2	4	2	5	4	1	0	5	2	29	27.6
Ci OA	3	1	1	0	2	3	1	0	0	1	0	12	
Ci Joints	5	3	1	5	3	7	4	1	2	4	5	40	30.0
T OA		0	0	0	0	1	0	0	1	0	1	3	
T Joints		2	2	1	1	2	2	0	1	1	1	13	23.1
P OA		0	1	0	0	2	0	0	0	0	0	3	
P Joints		2	1	2	1	4	1	0	1	3	1	16	18.8

Table 31: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the cervical vertebrae by tomb type.

Elbow	Humerus L dist	Ulna L prox	Radius L prox	Humerus R dist	Radius R prox	Ulna R prox	Sum	%
B OA	0	2	0	2	0	0	4	
B Joints	9	15	5	15	8	13	65	6.2
Ch OA	1	0	0	1	1	2	5	
Ch Joints	14	19	19	22	15	24	113	4.4
Ost OA	2	6	2	6	3	11	30	
Ost Joints	35	42	35	49	42	63	266	11.3
SL OA	1	0	0	0	0	0	1	
SL Joints	9	6	5	12	6	11	49	2.0
Ci OA	1	1	1	2	1	1	7	
Ci Joints	7	6	4	9	5	6	37	18.9
T OA	1	1	1	0			3	
T Joints	2	5	3	0			10	30.0
P OA	0	0	1	1	0	3	5	
P Joints	2	3	2	3	3	6	19	26.3

Table 32: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the shoulder and sternal region by tomb type.

Wrist	Ulna L dist	Radius L dist	Radius R dist	Ulna R dist	Sum	%
B OA	0	0	0	0	0	
B Joints	2	5	8	3	18	0
Ch OA	0	0	0	1	1	
Ch Joints	9	20	10	9	48	2.08
Ost OA	1	0	2	3	6	
Ost Joints	13	32	27	20	92	6.52
SL OA	0	0	0	0	0	
SL Joints	2	5	2	2	11	0
Ci OA	0	1	1	0	2	
Ci Joints	6	6	6	4	22	9.09
T OA	0	0			0	
T Joints	1	1			2	0
P OA	0	1	1	0	2	
P Joints	2	1	3	1	7	28.6

Table 33: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the wrist joints by tomb type.

Hands	B OA	B Joints	Ch OA	Ch Joints	Ost OA	Ost Joints	SL OA	SL Joints	Ci OA	Ci Joints	T OA	T Joints	P OA	P Joints
LMC1	0	12	1	21	4	29	0	1	0	3	0	1	1	3
LMC2	1	13	1	23	1	35	0	6	0	5	0	2	1	3
LMC3	0	13	1	25	2	39	0	4	0	3	0	2	1	3
LMC4	0	13	0	21	1	36	0	5	0	1	0	1	0	1
LMC5	0	12	0	21	1	29	0	3	0	3	0	1	0	2
L prox phal. 1	0	4	1	13	1	12	0	2	0	1	0	1	1	3
L dist phal. 1			0	5	1	4	0	1			0	1	0	1
L prox phal. 2-5	0	8			1	1					0	3	0	4
L mid phal. 2-5	0	4	0	1	1	1					0	2	0	4
L dist phal. 2-5			0	1							0	2	0	3
RMC1	0	8	5	26	7	33			0	5	0	4	2	4
RMC2	0	11	0	23	2	37	0	1	0	2	0	3	2	4
RMC3	0	12	1	25	4	31	0	4	0	4	0	2	1	3
RMC4	0	12	0	26	1	31	0	2	0	4	0	1	1	4
RMC5	0	12	0	21	0	27			0	4	0	1	1	2
R prox phal. 1	0	6	3	10	2	15	0	4	0	3	0	3	2	3
R dist phal. 1	0	4	0	6	1	3					0	1	0	1
R prox phal. 2-5	0	8									0	4	0	4
R mid phal. 2-5	0	4									0	2	0	4

R dist phalanges 2-5												0	2	0	4
Hands	B OA	B Joints	Ch OA	Ch Joints	Ost OA	Ost Joints	SL OA	SL Joints	Ci OA	Ci Joints	T OA	T Joints	P OA	P Joints	
Metacarpals un-sided	0	20	2	58	0	52	0	5	0	7	0	15	5	12	
Prox phal. un-sided	7	150	16	243	29	303	0	30	0	24	0	18	6	37	
Mid phal. un-sided	2	53	9	114	22	147	0	19	0	14	0	1	2	8	
Dist phal. un-sided	0	6	7	45	6	43	1	2	0	2			0	1	
Sum	10	385	47	728	87	908	1	89	0	85	0	73	26	118	
%		2.6		6.5		9.6		1.1		0.0		0.0		22.0	

Table 34: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the hands by tomb type.

Hips	Pubis L	Ischium L	Ilium L	Pubis R	Ischium R	Ilium R	Femur L prox	Femur R prox	Sum	%
B OA	0	0	1	1	0	0	0	0	2	
B Joints	4	12	7	4	8	7	11	12	65	3.1
Ch OA	0	4	0	0	1	1	1	1	8	
Ch Joints	3	15	4	0	8	5	18	15	68	11.8
Ost OA	2	9	5	5	4	1	2	1	29	
Ost Joints	14	32	16	17	29	15	31	34	188	15.4
SL OA	0	0	0	0	0	0	0	1	1	
SL Joints	1	7	4	1	6	7	12	15	53	1.9
Ci OA	0	5	1	1	1	0	2	1	11	
Ci Joints	2	6	3	3	5	2	6	4	31	35.5
T OA	0	0	0		0	0	0	0	0	
T Joints	1	3	1		5	0	3	3	16	0.0
P OA	0	1	1	0	2	1	0	0	5	
P Joints	1	3	5	1	4	5	6	9	34	14.7

Table 35: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the hips joints by tomb type.

Knees	Femur L dist	Patella L	Tibia L prox	Femur R dist	Patella R	Tibia R prox	Sum	%
B OA	1	1	0	1	1	2	6	
B Joints	21	22	16	24	26	17	126	4.8
Ch OA	1	4	0	0	3	0	8	
Ch Joints	10	15	12	11	15	14	77	10.4
Ost OA	4	6	1	5	8	1	25	
Ost Joints	36	46	31	40	44	35	232	10.8
SL OA	2	3	1	3	1	1	11	
SL Joints	12	11	10	17	9	11	70	15.7
Ci OA	1	0	0	0	0	0	1	
Ci Joints	10	2	7	9	3	6	37	2.7
T OA	0	0	0	0	0	0	0	
T Joints	3	2	1	3	3	2	14	0.0

MT unsided	0	5	0	21	0	25	0	7	0	2	0	2	0	0
Prox phal. unsided	9	87	13	109	28	220	2	20	4	13	0	2	1	13
Feet	B OA	B Joints	Ch OA	Ch Joints	Ost OA	Ost Joints	SL OA	SL Joints	Ci OA	Ci Joints	T OA	T Joints	P OA	P Joints
Mid phal. unsided	1	5	1	8	9	24	1	1						
Dist phal. unsided	2	2	0	1	7	18								
Sum	25	431	36	360	85	881	6	127	6	64	3	24	1	52
%		5.8		10.0		9.6		4.7		9.4		12.5		1.9

Table 38: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the feet by tomb type.

	Built OA (%)	Chamber OA (%)	Osteotheke OA (%)	Stone-lined OA (%)	Cist OA (%)	Tile OA (%)	Pit OA (%)
Jaw	0.0	6.3	4.5	0.0	0.0	0.0	0.0
Cervical vertebrae	0.0	17.3	12.6	14.3	7.7	40.0	27.8
Thoracic vertebrae	2.4	7.3	15.9	0.0	35.1	11.8	10.0
Lumbar Vertebrae	0.0	4.3	14.8	0.0	38.2	0.0	23.1
Shoulder/sternal*	13.9	18.9	26.7	27.6	30.0	23.1	18.8
Shoulder only	13.6	15.0	22.1	33.3	29.6	30.0	25.0
Sternal only	14.3	30.8	38.6	12.5	30.8	0.0	0.0
Elbow	6.2	4.4	11.3	2.0	18.9	30.0	26.3
Wrist	0.0	2.1	6.5	0.0	9.1	0.0	28.6
Hands*	2.6	6.5	9.6	1.1	0.0	0.0	22.0
Metacarpals only	0.7	3.8	6.1	0.0	0.0	0.0	36.6
Hand Phalanges only	3.6	8.2	12.1	1.7	0.0	0.0	14.3
Hips	3.1	11.8	15.4	1.9	35.5	0.0	14.7
Knees	4.8	10.4	10.8	15.7	2.7	0.0	20.0
Ankle	0.0	5.2	3.3	0.0	2.6	0.0	0.0
Feet*	5.8	10.0	9.6	4.7	9.4	12.5	1.9
Metatarsals only	1.8	5.4	3.9	2.9	0.0	11.1	0.0
Foot Phalanges only	13.1	15.9	17.8	13.0	28.6	16.7	3.6
All joint surfaces	3.8	8.2	11.2	5.9	15.6	7.7	15.1

Table 39: Summary of OA prevalences by joint region and for all joints combined by tomb type.

Osteoarthritis (OA) by cemetery

H NC= Hellenistic North Cemetery; R NC= Roman North Cemetery; R MK= Roman Monastiriako Kephali; R Top= Roman Topana; R San= Roman Sanatorium; LR Krev= Late Roman Krevatina; LR San= Late Roman Sanatorium; LA NC= Late Antique North Cemetery; LA MK= Late Antique Monastiriako Kephali.

Jaw	Temporal L	Temporal R	Mandible L	Mandible R	Sum	%
H NC OA	0	0	0	0	0	
H NC joints	9	11	9	7	36	0.0
R NC OA	0	0	0	0	0	
R NC joints	1	3	6	5	15	0.0
R MK OA	0	0	0	2	2	
R MK joints	2	4	1	12	19	10.5
R Top OA	0	0	0	0	0	
R Top joints	1	3	1	2	7	0.0
R San OA	0	0	0	0	0	
R San joints	4	5	2	2	13	0.0
LR Krev OA	0	0	0		0	
LR Krev joints	1	1	1		3	0.0
LR San OA	0	0		0	0	
LR San joints	2	4		3	9	0.0
LA NC OA	0	0	4	0	4	
LA NC joints	29	23	26	25	103	3.9
LA MK OA		0		0	0	
LA MK joints		1		1	2	0.0

Table 40: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the jaw by cemetery.

Cervical vertebrae	C1	C2	C3	C4	C5	C6	C7	Sum	%
H NC OA	2	1	3	4	4	1		15	
H NC joints	5	8	5	4	5	2		29	51.7
R NC OA	1	0	0	0	0	0	0	1	
R NC joints	5	3	3	4	3	2	2	22	4.5
R MK OA	2	4	2	2	1	2	1	14	
R MK joints	15	18	9	7	9	13	4	75	18.7
R Top OA	0	0	0	0	0		0	0	
R Top joints	1	2	1	1	1		1	7	0.0
R San OA	0	0	0	0	0			0	
R San joints	1	2	1	1	1			6	0.0
LR Krev OA	0	0	0	0	0	0	1	1	
LR Krev joints	2	2	2	4	3	1	3	17	5.9
LR San OA	1	1	0	0		0	0	2	
LR San joints	4	5	1	1		1	2	14	14.3

LA NC OA	2	7	1	3	5	5	3	26	
LA NC joints	42	37	29	31	26	33	17	215	12.1
Cervical vertebrae	C1	C2	C3	C4	C5	C6	C7	Sum	%
LA MK OA	0	0	0					0	
LA MK joints	1	1	1					3	0.0

Table 41: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the cervical vertebrae by cemetery.

Thoracic vertebrae	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	Sum	%
H NC OA	1	0	1	0	0	0	0	0	0	0	0		2	
H NC joints	1	1	1	3	3	1	1	1	1	1	1		15	13.3
R NC OA	0	0	0	0	0	1	1	0	0	1	0	0	3	
R NC joints	2	1	1	2	1	1	2	3	4	3	1	1	22	13.6
R MK OA	0	0	0	1	0	0	0	1	1	0	1	2	6	
R MK joints	7	4	7	13	10	5	5	6	10	4	3	3	77	7.8
R Top OA	0	0	0	0	0	0	0	0	0	0	0	0	0	
R Top joints	1	1	1	2	2	2	2	3	2	1	1	2	20	0.0
R San OA	0		0		0	0	0	0					0	
R San joints	1		1		1	1	1	1					6	0.0
LR Krev OA	0	1	1	1	2	2	2	2	2	2	2	1	18	
LR Krev joints	3	4	3	3	3	3	3	3	3	3	3	3	37	48.6
LR San OA	0	0	0	0	0	0	0	0	0	0		0	0	
LR San joints	2	1	1	3	2	1	2	4	2	1		1	20	0.0
LA NC OA	3	4	2	5	2	7	6	4	5	6	5	3	52	
LA NC joints	35	19	24	29	25	32	31	31	27	22	18	27	320	16.3
LA MK OA												0	0	
LA MK joints												1	1	0.0

Table 42: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the thoracic vertebrae by cemetery.

Lumbar vertebrae	L1	L2	L3	L4	L5	Sacrum	Sum	%
H NC OA	0	2	1	0			3	
H NC joints	3	3	1	1			8	37.5
R NC OA	0	0	0	0	0	0	0	
R NC joints	3	2	2	1	1	1	10	0.0
R MK OA	1	1	0	0	0	0	2	
R MK joints	16	10	5	2	2	5	40	5.0
R Top OA	0	0	0	0	0	0	0	
R Top joints	4	2	2	2	1	2	13	0.0
R San OA	0	0	0				0	
R San joints	1	1	1				3	0.0

LR Krev OA	2	3	3	1	2	1	12	
LR Krev joints	4	4	4	1	2	3	18	66.7
Lumbar vertebrae	L1	L2	L3	L4	L5	Sacrum	Sum	%
LR San OA	0	0	0	0	0	0	0	
LR San joints	5	4	4	2	1	4	20	0.0
LA NC OA	3	2	3	7	6	3	24	
LA NC joints	37	33	30	27	23	36	186	12.9
LA MK OA	0	0	0	0	0	0	0	
LA MK joints	1	1	1	1	1	1	6	0.0

Table 43: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the articular facet joints of the lumbar vertebrae by cemetery.

Shoulder and sternal	Manubrium	Clavicle L prox	Clavicle L dist	Clavicle R prox	Clavicle R dist	Glenoid R	Glenoid L	Acromion L	Acromion R	Humerus L prox	Humerus R prox	Sum	%
H NC OA		0	1	0	0	1	0		0	0	0	2	
H NC joints		2	1	1	1	3	2		1	2	1	14	14.3
R NC OA	1	0	1	1	0	1	0		1	0	2	7	
R NC joints	1	3	3	4	2	2	1		1	2	4	23	30.4
R MK OA	1	1	1	1	0	3	1		0	1	0	9	
R MK joints	2	5	7	5	9	4	6		3	9	1	51	17.6
R Top OA	0	0	0	0	1	0	0			0	0	1	
R Top joints	1	1	1	1	1	1	2			3	3	14	7.1
R San OA				1		0						1	
R San joints				1		1						2	50.0
LR Krev OA	2	0	1	0	2	2	1	0	0	1	0	9	
LR Krev joints	3	2	1	3	3	3	2	1	1	3	2	24	37.5
LR San OA	1	0	1	0	1	1	1	1		0	0	6	
LR San joints	3	2	2	6	2	4	1	1		3	2	26	23.1
LA NC OA	7	9	8	8	8	9	4	1	1	2	3	60	
LA NC joints	21	23	20	21	19	43	34	9	5	16	21	232	25.9
LA MK OA				0		1				0		1	
LA MK joints				1		1				1		3	33.3

Table 44: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the shoulder and sternal region by cemetery.

Elbow	Humerus L dist	Ulna L prox	Radius L prox	Humerus R dist	Radius R prox	Ulna R prox	Sum	%
H NC OA		0	1	1	0	0	4	
H NC joints		1	4	2	2	2	16	25.0
R NC OA		1	2	1	0	0	4	
R NC joints		6	11	2	5	2	30	13.3

R MK OA	1	1	0	1	1	2	6	
R MK joints	12	16	19	21	14	21	103	5.8
R Top OA	0	1	0	2	0	0	3	
Elbow	Humerus L dist	Ulna L prox	Radius L prox	Humerus R dist	Radius R prox	Ulna R prox	Sum	%
R Top joints	5	6	3	7	5	7	33	9.1
R San OA	0	0		0	0	0	0	
R San joints	1	3		1	1	3	9	0.0
LR Krev OA	1	1	1	1	1	1	6	
LR Krev joints	4	4	3	4	4	4	23	26.1
LR San OA	1	1	0	0	0	1	3	
LR San joints	6	6	6	12	5	10	45	6.7
LA NC OA	2	6	2	7	3	11	31	
LA NC joints	40	45	37	56	46	69	293	10.6
LA MK OA	0	0	0	1	0	1	2	
LA MK joints	1	1	1	1	1	1	6	33.3

Table 45: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the elbow joints by cemetery.

Wrist	Ulna L dist	Radius L dist	Radius R dist	Ulna R dist	Sum	%
H NC OA	0		1		1	
H NC joints	1		2		3	33.3
R NC OA	0	0	0	0	0	
R NC joints	2	2	3	1	8	0.0
R MK OA	0	0	0	1	1	
R MK joints	9	20	10	8	47	2.1
R Top OA		0	0	0	0	
R Top joints		2	2	1	5	0.0
R San OA				0	0	
R San joints				1	1	0.0
LR Krev OA	0	1	1	0	2	
LR Krev joints	2	3	3	1	9	22.2
LR San OA	0	0	0	0	0	
LR San joints	2	5	4	2	13	0.0
LA NC OA	1	0	2	3	6	
LA NC joints	18	37	31	24	110	5.5
LA MK OA	0	1	0	0	1	
LA MK joints	1	1	1	1	4	25.0

Table 46: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the wrist joints by cemetery.

Hands	H NC OA	H NC joints	R NC OA	R NC joints	R MK OA	R MK joints	R Top OA	R Top joints	R San OA	R San joints	LR Krev OA	LR Krev joints	LR San OA	LR San joints	LA NC OA	LA NC joints	LA MK OA	LA MK joints
LMC1	1	2	0	5	1	20			0	1	0	1	0	8	4	34	0	1
LMC2	1	3	0	4	2	22	1	3	0	1	0	3	0	9	1	42	0	1

LMC3	1	3	0	3	1	24	0	3	0	1	0	3	0	8	2	40	0	1
LMC4			0	7	0	20	0	1	0	1	0	1	0	7	1	40	0	1
LMC5	0	1	0	2	0	21	0	2			0	3	0	8	1	30	0	1
Hands	H NC OA	H NC joints	R NC OA	R NC joints	R MK OA	R MK joints	R Top OA	R Top joints	R San OA	R San joints	LR Krev OA	LR Krev joints	LR San OA	LR San joints	LA NC OA	LA NC joints	LA MK OA	LA MK joints
L prox phal. 1	1	2	0	1	1	12	0	2	0	1	0	1	0	3	1	13	0	1
L dist phal. 1			0	1	0	5									1	5	0	1
L prox phal. 2-5			0	3			0	8							1	1	0	4
L mid phal. 2-5			0	2	0	1	0	4							1	1	0	4
L dist phal. 2-5			1	2	0	1											0	3
RMC1	2	5	0	6	5	25	0	3	0	1	0	4	0	1	7	34	0	1
RMC2	2	4	0	5	0	23	0	1			0	2	0	8	2	36	0	1
RMC3	1	3	0	4	1	23	0	1	0	2	0	3	0	13	4	33	0	1
RMC4	1	3	0	3	0	26	0	2			0	2	0	10	1	33	0	1
RMC5	1	1	0	3	0	21	0	2			0	3	0	8	0	28	0	1
R prox phal. 1	2	4	0	1	3	9	0	2			0	3	0	7	2	16	0	1
R dist phal. 1			1	2	0	6	0	1					0	2	1	3	0	1
R prox phal. 2-5			0	4			0	8									0	4
R mid phal. 2-5			1	2			0	4									0	4
R dist phal. 2-5			1	2													0	4
MC unsided			0	6	2	58	0	5			0	7	0	10	0	52		
Prox phal. unsided	6	45	0	71	16	237	0	3	0	6	0	20	7	90	28	335		
Mid phal. unsided	2	9	0	16	9	112	0	1	0	2	0	11	2	38	22	167		
Dist phal. unsided	0	1			7	45					0	1	0	6	7	46		
Sum	21	86	4	155	48	711	1	56	0	16	0	68	9	236	87	989	0	37
%		24.4		2.6		6.8		1.8		0.0		0.0		3.8		8.8		0.0

Table 47: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the hands by cemetery.

Hips	Pubis L	Ischium L	Ilium L	Pubis R	Ischium R	Ilium R	Femur L prox	Femur R prox	Sum	%
H NC OA		1	1		2	1	0	0	5	
H NC joints		2	5		4	4	6	9	30	16.7
R NC OA	0	0	0	0	0	0	0	0	0	
R NC joints	2	6	4	1	4	3	3	4	27	0.0
R MK OA	0	3	0		1	1	1	1	7	
R MK joints	3	14	4		8	4	17	14	64	10.9
R Top OA	0	0	1	0	0	0	0	0	1	
R Top joints	1	2	4	1	3	3	3	3	20	5.0
R San OA		1				0	0	0	1	
R San joints		1				1	1	1	4	25.0
LR Krev OA	0	2	1	0	1		1	1	6	
LR Krev joints	1	3	2	1	2		2	2	13	46.2
LR San OA	0	0	0	0	0	0	0	0	0	
LR San joints	2	11	1	2	9	3	15	15	58	0.0
LA NC OA	2	12	3	6	4	2	2	2	33	
LA NC joints	16	38	18	21	34	21	38	43	229	14.4
LA MK OA	0	0	0	0	0	0	0	0	0	
LA MK joints	1	1	1	1	1	1	1	1	8	0.0

Table 48: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the hip joints by cemetery.

Knees	Femur L dist	Patella L	Tibia L prox	Femur R dist	Patella R	Tibia R prox	Sum	%
H NC OA	1	1	0	1	2	1	6	
H NC joints	4	3	3	5	5	3	23	26.1
R NC OA	0	0	0	1	0	1	2	
R NC joints	4	5	4	3	5	3	24	8.3
R MK OA	1	4	0	0	3	0	8	
R MK joints	9	15	12	9	14	14	73	11.0
R Top OA	0	0	0	0	0	0	0	
R Top joints	3	1	2	2	1	1	10	0.0

R San OA	0			0	0		0	
R San joints	1			2	1		4	0.0
LR Krev OA	0	0	0	0	0	0	0	
Knees	Femur L dist	Patella L	Tibia L prox	Femur R dist	Patella R	Tibia R prox	Sum	%
LR Krev joints	4	1	3	4	2	2	16	0.0
LR San OA	2	3	1	1	2	2	11	
LR San joints	24	25	19	35	28	26	157	7.0
LA NC OA	6	7	1	7	8	1	30	
LA NC joints	47	50	38	51	47	43	276	10.9
LA MK OA	0		0		0	0	0	
LA MK joints	1		1		1	1	4	0.0

Table 49: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the knee joints by cemetery.

Ankles	Tibia L dist	Fibula L dist	Talus L	Tibia R dist	Fibula R dist	Talus R	Sum	%
H NC OA	0	0	0	0		0	0	
H NC joints	5	1	9	7		7	29	0.0
R NC OA	0	0	0	0	0	0	0	
R NC joints	3	1	10	4	3	7	28	0.0
R MK OA	0		0	0	0	0	0	
R MK joints	14		10	11	2	12	49	0.0
R Top OA	0	0	0	0	0	0	0	
R Top joints	3	1	3	3	1	3	14	0.0
R San OA	1		1	0	0	1	3	
R San joints	2		2	1	1	3	9	33.3
LR Krev OA	0	0	0	0	0	0	0	
LR Krev joints	2	2	3	3	2	4	16	0.0
LR San OA	0	0	0	0	0	0	0	
LR San joints	28	26	35	30	22	33	174	0.0
LA NC OA	3	0	2	1	1	2	9	
LA NC joints	47	17	71	50	22	70	277	3.2
LA MK OA	0	0	0	0	0		0	
LA MK joints	1	1	1	1	1		5	0.0

Table 50: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the ankle joints by cemetery.

Feet	H NC OA	H NC joints	R NC OA	R NC joints	R MK OA	R MK joints	R Top OA	R Top joints	R San OA	R San joints	LR Krev OA	LR Krev joints	LR San OA	LR San joints	LA NC OA	LA NC joints	LA MK OA	LA MK joints
LMT1	0	2	0	2	3	15	0	2	0	1	0	2	4	34	5	57	0	1
LMT2	0	2	0	2	0	15	0	1			0	1	0	29	2	53	0	1
LMT3	0	1	0	3	0	22	0	1			0	3	0	27	1	58	0	1
LMT4	0	1	0	2	0	24	0	2			0	1	1	30	1	45	0	1
LMT5	0	1	0	4	2	27	0	1			0	2	0	32	5	54	0	1

L prox phal. 1			2	4	3	13	0	1			0	1	2	19	8	32	0	1
L dist phal. 1			0	1	2	3							1	5	5	13	0	1
Feet	H NC OA	H NC joints	R NC OA	R NC joints	R MK OA	R MK joints	R Top OA	R Top joints	R San OA	R San joints	LR Krev OA	LR Krev joints	LR San OA	LR San joints	LA NC OA	LA NC joints	LA MK OA	LA MK joints
L prox phal. 2-5															0	4	0	3
RMT1	0	3	2	6	2	14	0	1	0	3	0	3	4	34	1	59	0	1
RMT2	0	2	0	6	1	14	0	2	0	1	0	4	0	35	1	53	0	1
RMT3			0	3	1	13	0	2	0	1	0	4	0	33	2	58	0	1
RMT4			0	4	1	17	0	2	0	1	0	3	0	29	1	44	0	1
RMT5	0	2	0	4	1	14	0	2			0	3	0	26	1	44	0	1
R prox phal. 1	0	2	1	3	5	16	0	2	0	1	0	3	2	23	6	40	0	1
R dist phal. 1			0	1	1	6							3	7	4	13	0	1
R prox phal.2-5															0	4	0	4
R mid phal. 2-5																	0	2
MT unsided	0	2	0	1	0	18	0	1			0	2	0	6	0	33		
Prox phal. unsided	1	15	1	15	13	108	0	10	0	1	0	10	10	77	28	228		
Mid phal. unsided			0	1	1	7			0	1			2	5	9	24		
Dist phal. unsided					0	1							1	1	7	18		
Sum	1	33	6	62	36	347	0	30	0	10	0	42	30	452	87	934	0	23
%		3.0		9.7		10.4		0.0		0.0		0.0		6.6		9.3		0.0

Table 51: OA counts and total numbers of joints with totals (sum) and OA prevalences (%) for the joints of the feet by cemetery.

Intervertebral disc disease (IVDD) by time period

	Hellenistic IVDD	Hellenistic vertebrae	Roman IVDD	Roman vertebrae	Late Antique IVDD	Late Antique vertebrae
C2	1	14	11	29	13	44
C3	3	5	10	21	10	31
C4	2	3	5	23	11	31
C5	4	6	8	20	17	29
C6	2	2	13	25	24	36
C7	0	0	6	15	8	16
Sum	12	30	53	133	83	187
%		40.0		39.8		44.4

Table 52: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the cervical vertebrae by time period.

	Hellenistic IVDD	Hellenistic vertebrae	Roman IVDD	Roman vertebrae	Late Antique IVDD	Late Antique vertebrae
T1	0	0	4	20	15	36
T2	0	1	8	18	13	21
T3	0	0	9	25	12	21
T4	1	3	15	30	12	24
T5	1	3	15	25	19	28
T6	1	2	11	22	26	40
T7	2	2	9	19	23	39
T8	2	2	13	31	20	35
T9	3	3	13	27	27	35
T10	1	1	15	22	20	31
T11	0	1	9	15	22	30
T12	1	1	8	15	22	34
Sum	12	19	129	269	231	374
%		63.2		48.0		61.8

Table 53: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the thoracic vertebrae by time period.

	Hellenistic IVDD	Hellenistic vertebrae	Roman IVDD	Roman vertebrae	Late Antique IVDD	Late Antique vertebrae
L1	3	5	16	38	22	43
L2	2	4	10	28	19	38
L3	0	1	14	23	22	35
L4	1	1	8	12	22	27
L5	0	0	3	9	11	23
Sacrum	0	0	5	20	8	45
Sum	6	11	56	130	104	211
%		54.5		43.1		49.3

Table 54: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the lumbar vertebrae by time period.

Intervertebral disc disease (IVDD) by sex

	Female IVDD	Female vertebrae	Male IVDD	Male vertebrae
C2	0	10	5	9
C3	0	4	6	8
C4	0	3	4	8
C5	0	3	8	9
C6	0	1	5	5
C7	0	1	1	4
Sum	0	22	29	43
%		0.0		67.4

Table 55: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the cervical vertebrae by sex.

	Female IVDD	Female vertebrae	Male IVDD	Male vertebrae
T1	0	1	1	4
T2	0	1	3	4
T3	1	3	2	3
T4	2	4	3	4
T5	1	3	6	7
T6	1	3	5	7
T7	1	2	6	7
T8	3	4	5	7
T9	1	2	4	5
T10	1	1	5	6
T11	1	2	4	4
T12	1	1	4	5
Sum	13	27	48	63
%		48.1		76.2

Table 56: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the thoracic vertebrae by sex.

	Female IVDD	Female vertebrae	Male IVDD	Male vertebrae
L1	2	4	5	8
L2	1	2	5	8
L3	1	2	5	6
L4	0	0	3	4
L5	0	0	2	4
Sacrum	1	1	1	6
Sum	5	9	21	36
%		55.6		58.3

Table 57: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the lumbar vertebrae by sex.

Intervertebral disc disease (IVDD) by tomb type

B= Built; Ch= Chamber (rock-cut); Ost= Osteotheke; SL= Stone-lined; Ci= Cist; T= Tile; P= Pit.

	B IVDD	B vertebrae	Ch IVDD	Ch vertebrae	Ost IVDD	Ost vertebrae	SL IVDD	SL vertebrae	Ci IVDD	Ci vertebrae	T IVDD	T vertebrae	P IVDD	P vertebrae
C2	2	6	7	18	11	34	2	6	1	7	0	3	2	14
C3	1	4	7	13	8	25	2	4	1	4	1	2	3	5
C4	0	4	3	12	9	28	3	4	1	5	1	2	1	1
C5	2	3	3	12	14	25	4	4	2	4	1	2	3	4
C6	1	2	10	20	21	31	2	2	1	2	1	2	1	1
C7	1	3	4	6	6	13	2	4	1	6			0	0
Sum	7	22	34	81	69	156	15	24	7	28	4	11	10	25
%		31.8		42.0		44.2		62.5		25.0		36.4		40.0

Table 58: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the cervical vertebrae by tomb type.

	B IVDD	B vertebrae	Ch IVDD	Ch vertebrae	Ost IVDD	Ost vertebrae	SL IVDD	SL vertebrae	Ci IVDD	Ci vertebrae	T IVDD	T vertebrae	P IVDD	P vertebrae
T1	1	5	3	11	12	32	1	2	2	7			0	0
T2	0	1	6	11	9	16	1	4	3	6	0	2	0	0
T3	0	3	7	15	8	15	3	3	2	6	1	2	0	0
T4	2	4	9	17	8	21	3	5	4	5	2	3	0	2
T5	2	3	9	15	13	22	3	4	5	6	2	2	1	3
T6	0	3	7	15	21	35	2	2	5	6	2	2	1	2
T7	1	3	4	9	17	32	3	7	5	6	2	2	2	2
T8	2	7	7	16	14	29	2	5	6	7	2	2	2	2
T9	1	5	9	16	20	28	2	3	5	7	3	3	3	3
T10	2	3	9	13	15	26	3	4	4	5	2	2	1	1
T11	2	3	4	8	15	21	4	5	5	7	0	0	1	2
T12	2	3	3	8	16	26	2	3	6	8	0	0	2	2
Sum	15	43	77	154	168	303	29	47	52	76	16	20	13	19
%		34.9		50.0		55.4		61.7		68.4		80.0		68.4

Table 59: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the thoracic vertebrae by tomb type.

	B IVDD	B vertebrae	Ch IVDD	Ch vertebrae	Ost IVDD	Ost vertebrae	SL IVDD	SL vertebrae	Ci IVDD	Ci vertebrae	T IVDD	T vertebrae	P IVDD	P vertebrae
L1	4	10	6	19	19	36	3	7	5	7	2	3	2	5
L2	1	4	4	16	14	29	2	7	6	8	1	2	2	5
L3	3	6	7	12	18	29	2	5	5	7	0	0	1	2
L4	2	3	4	6	19	21	1	6	3	4	1	1	1	1
L5	1	2	1	4	10	18	0	4	1	3	0	0	1	1
Sacrum	2	8	1	9	8	27	0	4	2	7	0	0	0	1
Sum	13	33	23	66	88	160	8	33	22	36	4	6	7	15
%		39.4		34.8		55.0		24.2		61.1		66.7		46.7

Table 60: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the lumbar vertebrae by tomb type.

Intervertebral disc disease (IVDD) by cemetery

H NC= Hellenistic North Cemetery; R NC= Roman North Cemetery; R MK= Roman Monastiriako Kephali; R Top= Roman Topana; R San= Roman Sanatorium; LR Krev= Late Roman Krevatina; LR San= Late Roman Sanatorium; LA NC= Late Antique North Cemetery; LA MK= Late Antique Monastiriako Kephali.

	C2	C3	C4	C5	C6	C7	Sum	%
H NC IVDD	1	3	2	4	2		12	
H NC vertebrae	8	5	2	5	2		22	54.5
R NC IVDD	0	0	0	1	1	1	3	
R NC vertebrae	3	3	4	3	2	2	17	17.6
R MK IVDD	7	7	3	3	10	4	34	
R MK vertebrae	16	12	11	11	19	6	75	45.3
R Top IVDD	1	1	0	1		0	3	
R Top vertebrae	2	1	1	1		1	6	50.0
R San IVDD	0	0	0	0			0	
R San vertebrae	2	1	1	1			5	0.0
LR Krev IVDD	1	1	1	2	1	0	6	
LR Krev vertebrae	2	2	4	3	1	3	15	40.0
LR San IVDD	2	1	1	1	1	1	7	
LR San vertebrae	5	2	2	1	2	2	14	50.0
LA NC IVDD	12	9	11	17	24	8	81	
LA NC vertebrae	42	30	31	29	36	16	184	44.0
LA MK IVDD	1	1					2	
LA MK vertebrae	1	1					2	100.0

Table 61: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the cervical vertebrae by cemetery.

	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	Sum	%
H NC IVDD		0		1	1	1	2	2	3	1	0	1	12	
H NC vertebrae		1		3	3	2	2	2	3	1	1	1	19	63.2
R NC IVDD	1		1	1	1	1	2	1	2	3	1	1	15	
R NC vertebrae	3		2	2	1	1	2	3	4	3	2	1	24	62.5
R MK IVDD	3	6	7	9	9	7	4	7	9	9	4	3	77	
R MK vertebrae	10	11	14	17	14	13	8	15	16	13	8	8	147	52.4
R Top IVDD	0	0	0	2	2	0	0	2	1	0	1	1	9	
R Top vertebrae	1	1	1	2	2	2	2	3	2	1	1	2	20	45.0
R San IVDD	0		0		0	0	0	0					0	
R San vertebrae	1		1		1	1	1	1					6	0.0
LR Krev IVDD	0	2	0	2	2	2	2	2	1	2	2	2	19	
LR Krev vertebrae	3	4	3	3	3	3	3	3	3	3	3	3	37	51.4
LR San IVDD	0	0	1	1	1	1	1	1	0	1	1	1	9	
LR San vertebrae	2	1	2	4	3	2	3	5	2	2	1	1	28	32.1
LA NC IVDD	15	13	12	12	18	25	22	19	26	19	21	21	223	
LA NC vertebrae	36	21	21	25	27	39	37	31	33	30	29	33	362	61.6
LA MK IVDD					1	1	1	1	1	1	1	1	8	
LA MK vertebrae					1	1	1	1	1	1	1	1	8	100.0

Table 62: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the thoracic vertebrae by cemetery.

	L1	L2	L3	L4	L5	Sacrum	Sum	%
H NC IVDD	3	2		1			6	
H NC vertebrae	4	3		1			8	75.0
R NC IVDD	4	1	1		1	1	8	
R NC vertebrae	5	1	1		1	1	9	88.9
R MK IVDD	6	4	7	4	1	1	23	
R MK vertebrae	16	9	11	6	4	6	52	44.2
R Top IVDD	1	1	2	2	1	0	7	
R Top vertebrae	4	2	2	2	1	2	13	53.8
R San IVDD	0	0	0				0	
R San vertebrae	1	1	1				3	0.0

	L1	L2	L3	L4	L5	Sacrum	Sum	%
LR Krev IVDD	3	3	3	1	1	2	13	
LR Krev vertebrae	4	4	4	1	2	3	18	72.2
LR San IVDD	2	1	1	1	0	1	6	
LR San vertebrae	6	5	4	3	1	4	23	26.1
LA NC IVDD	22	19	21	21	10	8	101	
LA NC vertebrae	42	36	33	26	21	36	194	52.1
LA MK IVDD	0	0	1	1	1	1	4	
LA MK vertebrae	1	1	1	1	1	1	6	66.7

Table 63: IVDD counts and total numbers of vertebral bodies with totals (sum) and IVDD prevalences (%) for the lumbar vertebrae by cemetery.

Enthesal changes by time period

None= no enthesal changes; Minor= minor enthesal changes; Prominent= prominent enthesal changes; Entheses (n)= total number of entheses recorded.

Hellenistic	None	Minor	Prominent	Entheses (n)
Left costal impression	2	3		5
Left deltoid tuberosity	6			6
Left bicipital tuberosity	5		1	6
Left pronator ridge	1			1
Left ischial tuberosity	1			1
Left gluteal line	6	5	3	14
Left patellar ligament	2	1		3
Left tibial tuberosity				0
Left calcaneal tuberosity	3			3
Right costal impression	1	2	1	4
Right deltoid tuberosity	5	2		7
Right bicipital tuberosity	3		1	4
Right pronator ridge				0
Right ischial tuberosity		1		1
Right gluteal line	6	8	3	17
Right patellar ligament	4	3		7
Left/Right tibial tuberosity	2	2		4
Right calcaneal tuberosity	3			3
Sum totals	50	27	9	86

Table 64: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Hellenistic period.

Roman	None	Minor	Prominent	Entheses (n)
Left costal impression	7	2	2	11
Left deltoid tuberosity	11	6	3	20
Left bicipital tuberosity	23	4	3	30
Left pronator ridge	8	2		10
Left ischial tuberosity	14	7	3	24
Left gluteal line	21	18		39

Roman	None	Minor	Prominent	Entheses (n)
Left patellar ligament	40	4		44
Left calcaneal tuberosity	28	12	2	42
Right costal impression	8	9	4	21
Right deltoid tuberosity	15	8	2	25
Right bicipital tuberosity	28	7	2	37
Right pronator ridge	10	3		13
Right ischial tuberosity	18	3	2	23
Right gluteal line	29	16	2	47
Right patellar ligament	36	5	3	44
Left/Right tibial tuberosity	36	5	1	42
Right calcaneal tuberosity	25	10	2	37
Sum totals	357	121	31	509

Table 65: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Roman period.

Late Antique	None	Minor	Prominent	Entheses (n)
Left costal impression	8	3	1	12
Left deltoid tuberosity	12	1		13
Left bicipital tuberosity	27	4	3	34
Left pronator ridge	12	1		13
Left ischial tuberosity	16	7	2	25
Left gluteal line	14	8	1	23
Left patellar ligament	20	4	5	29
Left calcaneal tuberosity	19	5	3	27
Right costal impression	13	4	1	18
Right deltoid tuberosity	15	2		17
Right bicipital tuberosity	29	7	2	38
Right pronator ridge	14	2		16
Right ischial tuberosity	17	7	2	26
Right gluteal line	21	9	3	33
Right patellar ligament	23	7	2	32
Left/Right tibial tuberosity	38	3		41
Right calcaneal tuberosity	21	8	2	31
Sum totals	319	82	27	428

Table 66: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Late Antique period.

Enthesal changes by sex

Female	None	Minor	Prominent	Entheses (n)
Left costal impression	2			2
Left deltoid tuberosity	4	1		5
Left bicipital tuberosity	7	1	1	9
Left pronator ridge	1	1		2
Left ischial tuberosity	3	3		6
Left gluteal line	5	3		8
Left patellar ligament	1			1
Left calcaneal tuberosity	3			3
Right costal impression	3	1		4
Right deltoid tuberosity	6	2		8
Right bicipital tuberosity	4	1		5
Right pronator ridge	1	1		2
Right ischial tuberosity	7	1		8
Right gluteal line	4	4	1	9
Right patellar ligament	2	2		4
Left/Right tibial tuberosity	3	2		5
Right calcaneal tuberosity	2			2
Sum totals	58	23	2	83

Table 67: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for females.

Male	None	Minor	Prominent	Entheses (n)
Left costal impression	3	3		6
Left deltoid tuberosity	7	3		10
Left bicipital tuberosity	5	1	1	7
Left pronator ridge	5	1		6
Left ischial tuberosity	1	5	1	7
Left gluteal line	3	4	1	8
Left patellar ligament	5	2		7
Left calcaneal tuberosity	1	2		3
Right costal impression	2	3	2	7
Right deltoid tuberosity	5	3		8
Right bicipital tuberosity	5		1	6
Right pronator ridge	7	1		8
Right ischial tuberosity	4	3	1	8
Right gluteal line	5	4	1	10
Right patellar ligament	7	2		9
Left/Right tibial tuberosity	5	3		8
Right calcaneal tuberosity	2	2		4
Sum totals	72	42	8	122

Table 68: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for males.

Enthesal changes by tomb type

Built	None	Minor	Prominent	Entheses (n)
Left costal impression	2	1		3
Left deltoid tuberosity	4	1	2	7
Left bicipital tuberosity	6			6
Left pronator ridge	2			2
Left ischial tuberosity	10	1	1	12
Left gluteal line	12	4		16
Left patellar ligament	20	3		23
Left calcaneal tuberosity	20	4	2	26
Right costal impression	4		1	5
Right deltoid tuberosity	8	2	1	11
Right bicipital tuberosity	13			13
Right pronator ridge	4			4
Right ischial tuberosity	6	2		8
Right gluteal line	20	5		25
Right patellar ligament	19	3	3	25
Left/Right tibial tuberosity	19		1	20
Right calcaneal tuberosity	17	3	2	22
Sum totals	186	29	13	228

Table 69: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for built tombs.

Chamber	None	Minor	Prominent	Entheses (n)
Left costal impression	2	1	2	5
Left deltoid tuberosity	2	2	1	5
Left bicipital tuberosity	13	1	1	15
Left pronator ridge	4			4
Left ischial tuberosity	1	3	1	5
Left gluteal line	3	9		12
Left patellar ligament	11			11
Left calcaneal tuberosity	3	2		5
Right costal impression	1	6	3	10
Right deltoid tuberosity	3	1	1	5
Right bicipital tuberosity	9	5	1	15
Right pronator ridge	3	1		4
Right ischial tuberosity	4		1	5
Right gluteal line	3	5	1	9
Right patellar ligament	9	1		10
Left/Right tibial tuberosity	4	2		6
Right calcaneal tuberosity		2		2
Sum totals	75	41	12	128

Table 70: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for rock-cut chamber tombs.

Osteotheke	None	Minor	Prominent	Entheses (n)
Left costal impression	6	3	1	10
Left deltoid tuberosity	7	1		8
Left bicipital tuberosity	21	3	3	27
Left pronator ridge	7			7
Left ischial tuberosity	13	4	2	19
Left gluteal line	10	4	1	15
Left patellar ligament	16	3	5	24
Left calcaneal tuberosity	13	4	3	20
Right costal impression	9	1	1	11
Right deltoid tuberosity	9	1		10
Right bicipital tuberosity	24	7	1	32
Right pronator ridge	9	2		11
Right ischial tuberosity	15	2	2	19
Right gluteal line	16	8	3	27
Right patellar ligament	20	6	2	28
Left/Right tibial tuberosity	32	2		34
Right calcaneal tuberosity	14	7	2	23
Sum totals	241	58	26	325

Table 71: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for osteothekai.

Stone-lined	None	Minor	Prominent	Entheses (n)
Left costal impression	1			1
Left deltoid tuberosity	6			6
Left bicipital tuberosity	8			8
Left pronator ridge	3			3
Left ischial tuberosity	4	2		6
Left gluteal line	7	3		10
Left patellar ligament	10	2		12
Left calcaneal tuberosity	7	6		13
Right costal impression	1	4		5
Right deltoid tuberosity	7			7
Right bicipital tuberosity	6		1	7
Right pronator ridge	3			3
Right ischial tuberosity	4	3		7
Right gluteal line	7	4		11
Right patellar ligament	8	2		10
Left/Right tibial tuberosity	11	1		12
Right calcaneal tuberosity	8	4		12
Sum totals	101	31	1	133

Table 72: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for stone-lined graves.

Cist	None	Minor	Prominent	Entheses (n)
Left costal impression	3			3
Left deltoid tuberosity	3	2		5
Left bicipital tuberosity	2	3	1	6
Left pronator ridge	4	2		6
Left ischial tuberosity	2	3	1	6
Left gluteal line	2	5		7
Left patellar ligament	2			2
Left calcaneal tuberosity	3	1		4
Right costal impression	4	2		6
Right deltoid tuberosity	3	3		6
Right bicipital tuberosity	3	2	1	6
Right pronator ridge	5	2		7
Right ischial tuberosity	2	3	1	6
Right gluteal line	3	3		6
Right patellar ligament	2			2
Left/Right tibial tuberosity	5	3		8
Right calcaneal tuberosity	3	1		4
Sum totals	51	35	4	90

Table 73: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for cist graves.

Sarcophagus	None	Minor	Prominent	Entheses (n)
Left costal impression	1			1
Left deltoid tuberosity	1			1
Left bicipital tuberosity				0
Left pronator ridge				0
Left ischial tuberosity				0
Left gluteal line		1		1
Left patellar ligament				0
Left calcaneal tuberosity				0
Right costal impression	1			1
Right deltoid tuberosity				0
Right bicipital tuberosity	1			1
Right pronator ridge				0
Right ischial tuberosity				0
Right gluteal line				0
Right patellar ligament				0
Left/Right tibial tuberosity				0
Right calcaneal tuberosity	1			1
Sum totals	5	1	0	6

Table 74: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for sarcophagi.

Tile	None	Minor	Prominent	Entheses (n)
Left costal impression	1	1		2
Left deltoid tuberosity	1	1		2
Left bicipital tuberosity		1	1	2
Left pronator ridge		1		1
Left ischial tuberosity	1	1		2
Left gluteal line	2	1		3
Left patellar ligament	2			2
Left calcaneal tuberosity				0
Right costal impression	1	1		2
Right deltoid tuberosity	1	3		4
Right bicipital tuberosity	2			2
Right pronator ridge				0
Right ischial tuberosity	4			4
Right gluteal line	3	2		5
Right patellar ligament	3			3
Left/Right tibial tuberosity	1	1		2
Right calcaneal tuberosity	2	1		3
Sum totals	24	14	1	39

Table 75: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for tile graves.

Pit	None	Minor	Prominent	Entheses (n)
Left costal impression	2	2		4
Left deltoid tuberosity	5			5
Left bicipital tuberosity	5		1	6
Left pronator ridge	1			1
Left ischial tuberosity				0
Left gluteal line	5	4	3	12
Left patellar ligament	1	1		2
Left calcaneal tuberosity	4			4
Right costal impression	1	1	1	3
Right deltoid tuberosity	4	2		6
Right bicipital tuberosity	2		1	3
Right pronator ridge				0
Right ischial tuberosity		1		1
Right gluteal line	4	6	4	14
Right patellar ligament	2	3		5
Left/Right tibial tuberosity	4	1		5
Right calcaneal tuberosity	4			4
Sum totals	44	21	10	75

Table 76: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for pit graves.

Enthesal changes by cemetery

Hellenistic North Cemetery	None	Minor	Prominent	Entheses (n)
Left costal impression	2	3		5
Left deltoid tuberosity	6			6
Left bicipital tuberosity	5		1	6
Left pronator ridge	1			1
Left ischial tuberosity	1			1
Left gluteal line	6	5	3	14
Left patellar ligament	2	1		3
Left calcaneal tuberosity	3			3
Right costal impression	1	2	1	4
Right deltoid tuberosity	5	2		7
Right bicipital tuberosity	3		1	4
Right pronator ridge				0
Right ischial tuberosity		1		1
Right gluteal line	6	8	3	17
Right patellar ligament	4	3		7
Left/Right tibial tuberosity	2	2		4
Right calcaneal tuberosity	3			3
Sum totals	50	27	9	86

Table 77: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Hellenistic North Cemetery.

Roman North Cemetery	None	Minor	Prominent	Entheses (n)
Left costal impression	2			2
Left deltoid tuberosity		2	1	3
Left bicipital tuberosity		1	1	2
Left pronator ridge		1		1
Left ischial tuberosity	1	2	1	4
Left gluteal line	1	2		3
Left patellar ligament	5			5
Left calcaneal tuberosity	3		1	4
Right costal impression	3			3
Right deltoid tuberosity	4	5		9
Right bicipital tuberosity	7			7
Right pronator ridge	1			1
Right ischial tuberosity	5			5
Right gluteal line	4	2	1	7
Right patellar ligament	5			5
Left/Right tibial tuberosity	4			4
Right calcaneal tuberosity	2			2
Sum totals	47	15	5	67

Table 78: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Roman North Cemetery.

Roman Monastiriako Kephali	None	Minor	Prominent	Entheses (n)
Left costal impression	1	1	2	4
Left deltoid tuberosity		1	1	2
Left bicipital tuberosity	12	1	1	14
Left pronator ridge	3			3
Left ischial tuberosity	1	3	1	5
Left gluteal line	2	6		8
Left patellar ligament	10			10
Left calcaneal tuberosity	3	2		5
Right costal impression	1	4	3	8
Right deltoid tuberosity		1	1	2
Right bicipital tuberosity	8	4	1	13
Right pronator ridge	2	1		3
Right ischial tuberosity	4		1	5
Right gluteal line	2	2	1	5
Right patellar ligament	9	1		10
Left/Right tibial tuberosity	4	1		5
Right calcaneal tuberosity		2		2
Sum totals	62	30	12	104

Table 79: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Roman Monastiriako Kephali cemetery.

Roman Topana	None	Minor	Prominent	Entheses (n)
Left costal impression				0
Left deltoid tuberosity	4		1	5
Left bicipital tuberosity	4			4
Left pronator ridge	1			1
Left ischial tuberosity	1			1
Left gluteal line	2			2
Left patellar ligament	1			1
Left calcaneal tuberosity	1			1
Right costal impression	1			1
Right deltoid tuberosity	3		1	4
Right bicipital tuberosity	3			3
Right pronator ridge	2			2
Right ischial tuberosity	2	1		3
Right gluteal line	3	1		4
Right patellar ligament	1			1
Left/Right tibial tuberosity	2			2
Right calcaneal tuberosity	1			1
Sum totals	32	2	2	36

Table 80: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Roman Topana cemetery.

Roman Sanatorium	None	Minor	Prominent	Entheses (n)
Left costal impression	1			1
Left deltoid tuberosity	2	1		3
Left bicipital tuberosity	1			1
Left pronator ridge	1			1
Left ischial tuberosity				0
Left gluteal line	1	3		4
Left patellar ligament	1			1
Left calcaneal tuberosity				0
Right costal impression		2		2
Right deltoid tuberosity	3			3
Right bicipital tuberosity	1	1		2
Right pronator ridge	1			1
Right ischial tuberosity				0
Right gluteal line	1	3		4
Right patellar ligament				0
Left/Right tibial tuberosity		1		1
Right calcaneal tuberosity				0
Sum totals	13	11	0	24

Table 81: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Roman Sanatorium cemetery.

Late Roman Krevatina	None	Minor	Prominent	Entheses (n)
Left costal impression	1			1
Left deltoid tuberosity	1	2		3
Left bicipital tuberosity		2	1	3
Left pronator ridge	1	1		2
Left ischial tuberosity		2	1	3
Left gluteal line	1	3		4
Left patellar ligament	1			1
Left calcaneal tuberosity		1		1
Right costal impression	2	1		3
Right deltoid tuberosity	1	2		3
Right bicipital tuberosity	1	2	1	4
Right pronator ridge	2	2		4
Right ischial tuberosity		1	1	2
Right gluteal line	1	3		4
Right patellar ligament	2			2
Left/Right tibial tuberosity	1	3		4
Right calcaneal tuberosity		1		1
Sum totals	15	26	4	45

Table 82: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Late Roman Krevatina cemetery.

Late Roman Sanatorium	None	Minor	Prominent	Entheses (n)
Left costal impression	2	1		3
Left deltoid tuberosity	4			4
Left bicipital tuberosity	6			6
Left pronator ridge	2			2
Left ischial tuberosity	11			11
Left gluteal line	14	4		18
Left patellar ligament	22	4		26
Left calcaneal tuberosity	21	9	1	31
Right costal impression	1	2	1	4
Right deltoid tuberosity	4			4
Right bicipital tuberosity	8			8
Right pronator ridge	2			2
Right ischial tuberosity	7	1		8
Right gluteal line	18	5		23
Right patellar ligament	19	4	3	26
Left/Right tibial tuberosity	25		1	26
Right calcaneal tuberosity	22	7	2	31
Sum totals	188	37	8	233

Table 83: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Late Roman Sanatorium cemetery.

Late Antique North Cemetery	None	Minor	Prominent	Entheses (n)
Left costal impression	8	3	1	12
Left deltoid tuberosity	11	1		12
Left bicipital tuberosity	26	4	3	33
Left pronator ridge	11	1		12
Left ischial tuberosity	16	6	2	24
Left gluteal line	14	8	1	23
Left patellar ligament	20	4	5	29
Left calcaneal tuberosity	18	5	3	26
Right costal impression	13	3	1	17
Right deltoid tuberosity	14	2		16
Right bicipital tuberosity	28	7	2	37
Right pronator ridge	13	2		15
Right ischial tuberosity	17	6	2	25
Right gluteal line	20	9	3	32
Right patellar ligament	22	7	2	31
Left/Right tibial tuberosity	37	3		40
Right calcaneal tuberosity	20	8	2	30
Sum totals	308	79	27	414

Table 84: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Late Antique North Cemetery.

Late Antique Monastiriako Kephali	None	Minor	Prominent	Entheses (n)
Left costal impression				0
Left deltoid tuberosity	1			1
Left bicipital tuberosity	1			1
Left pronator ridge	1			1
Left ischial tuberosity		1		1
Left gluteal line				0
Left patellar ligament				0
Left calcaneal tuberosity	1			1
Right costal impression		1		1
Right deltoid tuberosity	1			1
Right bicipital tuberosity	1			1
Right pronator ridge	1			1
Right ischial tuberosity		1		1
Right gluteal line	1			1
Right patellar ligament	1			1
Left/Right tibial tuberosity	1			1
Right calcaneal tuberosity	1			1
Sum totals	11	3	0	14

Table 85: Counts of entheses with no changes, minor changes and prominent changes, total numbers of entheses (n) by entheses type and total numbers for each category (sum) for the Late Antique Monastiriako Kephali cemetery.